

## Biology 12 - Circulation Study Guide

1. What are the **three types of blood vessels** in the circulatory system? What are the functions of each?
2. How are veins **similar** to arteries? How are they **different**?
3. How are **arterioles** related to **blood pressure**?
4. Make a sketch of a capillary bed that shows arteries, arterioles, veins, venules, and capillaries.
5. **Give the function** for each of the following **blood vessels**: Use the diagram in your text on p. 235 and find each of this blood vessels on the picture.
  - a. subclavian arteries and veins
  - b. jugular veins
  - c. carotid arteries
  - d. mesenteric arteries
  - e. anterior and posterior vena cava
  - f. pulmonary veins and arteries
  - g. hepatic vein
  - h. hepatic portal vein
  - i. renal arteries and veins
  - j. iliac arteries and veins
  - k. coronary arteries and veins
  - l. aorta
6. Draw a **labelled sketch** of the heart that shows the following:
  - a. left and right atria
  - b. left and right ventricles
  - c. septum
  - d. aortic and pulmonary semilunar valves
  - e. tricuspid and bicuspid valves
  - f. aorta
  - g. inferior & superior vena cava
  - h. chordae tendinae
  - i. pulmonary artery
  - j. pulmonary arteries and veins
  - k. SA Node
  - l. AV Node
  - m. Purkinje fibres
7. The heart is described often as a "**double pump**." Explain **why** this is so and where these two pumps pump to.
8. What is the difference in structure and function between the **atrioventricular** valves and the **semilunar** valves. **Relate the structure of the mitral valve to its function**.
9. **Trace the path of a blood cell** from the **aorta** through the body and back to the **left ventricle**. List all the circulatory structures, in the correct order that the blood cell would pass through.
10. Describe **functions of the SA node, AV node, and Purkinje fibres**. Why is the heartbeat described as being "**intrinsic**"? Why is the SA node called the "**pacemaker**" node?
11. Using such words as **systole** and **diastole**, describe the events that happen in the cardiac cycle for a person whose heart is beating at 70 beats per minute.
12. What is an **ECG** and what is it used for? Make a **labelled sketch** of a normal ECG.
13. Explain how the **brain** controls the **rate** of the heartbeat. Be sure to specifically mention the exact part of the brain is involved. What **factors** determine whether the sympathetic or parasympathetic system is activated?
14. Look very carefully at the graph on p. 233. **Compare and contrast blood pressure, blood velocity, and total cross-sectional area** for arteries, capillaries, and veins.
15. What **causes** blood to flow in **arteries**? What causes blood to flow in **veins**?
16. What is the **pulmonary circuit**? List the structures through which blood flows in the pulmonary circuit.
17. What is the **systemic circuit**? List the structures through which blood flows in the systemic circuit.
18. **Normal blood pressure is 120/80**. Explain in **detail** what these two numbers mean. What is the name of the **instrument** that measures blood pressure? Would it be possible to have a blood pressure of 80/120? Why or why not?
19. What are **hypertension** and **hypotension**? List at least 3 factors or lifestyle habits that are thought to be associated with hypertension. Why is hypertension called the "**silent killer**"?
20. Describe the characteristics and causes of **atherosclerosis**.
21. Differentiate between a **heart attack** and a **stroke**. How is diet related to these killers?
22. Describe in detail the 4 structural differences between the **fetal circulatory system** and the **adult circulatory system**. Make a sketch of these 4 structures in the fetal circulatory system.

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